

KENWOOD

CD PLAYER

DP-48

INSTRUCTION MANUAL

KENWOOD CORPORATION



B50-9524-18 (JA) (K,P,E,X)(A)

00/12 11 10 9 8 7 6 5 4 3 2 1 89/12 11 10 9 8 7 6 5 4 3 2 1

Introduction

Your choice of this product indicates that you are a devotee to excellence in sound reproduction.

We appreciate your patronage and take pride in the long tradition of quality components, that our company represents.

So that you can get the most out of your unit, we suggest that you take the time to read through this manual before you hook up and operate your system.

This will acquaint you with operating features, and system-connection considerations, so that your listening pleasure will be enhanced right from the start. You will notice that in all aspects of planning, engineering, styling, operating convenience and adaptability, we have sought to anticipate your needs and desires.

Keep this manual handy for future reference.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model DP-48 Serial Number _____

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION
SHIONOGI SHIBUYA BUILDING 17-5, 2-CHOME,
SHIBUYA, SHIBUYA-KU, TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT
CONFORMS TO DHHS REGULATIONS NO. 21 CFR
1040. 10, CHAPTER I, SUBCHAPTER J.

Location: Back Panel

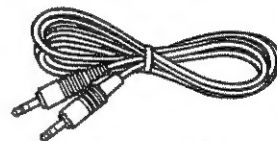
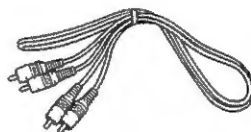
DANGER

INVISIBLE LASER RADIATION WHEN OPEN
AND INTERLOCK FAILED OR DEFEATED.
AVOID DIRECT EXPOSURE TO BEAM.

Location: Inside, near the Laser mechanism.

Accessories

- Audio cord..... 1
- System control cord..... 1
(Except for some areas.)



DOC REGULATION

"THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS."

Contents

Caution: Read the following pages marked in Δ carefully to keep your safety.

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Before applying power

For the U.S.A. and Canada

Important!

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only.

For Australia and Europe

Important!

Units shipped to Australia are designed for operation on 240 V AC only.

Units shipped to Europe are designed for operation on 220 V AC only.

For the United Kingdom

Important!

Units shipped to the U.K. are designed for operation on 240 volts AC only.

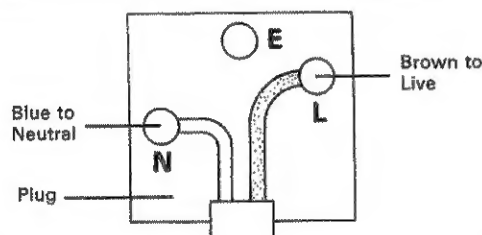
The mains plug must be removed from the wall socket prior to any internal examination.

The wires in this mains lead are coloured in accordance with the following code:

Blue Neutral
Brown Live

The wires in this mains lead must be connected to the terminals in the plug as follows:

Wire colour	Plug terminal marking
Blue	N or Black
Brown	L or Red



Notes:

1. If a 13-amp plug is used, this must be fitted with a 5-amp fuse.
2. If a 3-pin plug with earthing contact is used, no wire must be connected to the E terminal.

For other countries

Important!

Units shipped to countries other than the above countries are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

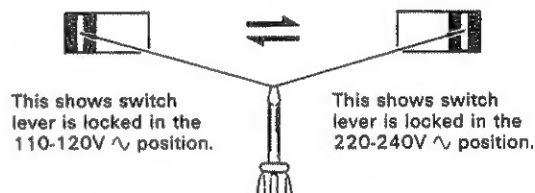
AC voltage selection

This unit operates on 110-120 or 220-240 volts AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

AC 110-120V ~ ~ ~ AC 220-240V ~ ~ ~ AC 110-120V ~ ~ ~ AC 220-240V ~ ~ ~



Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

AC voltage selector switch

Safety precautions

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

IMPORTANT SAFEGUARDS

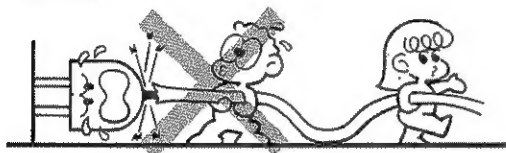
⚠ Caution : Read this page carefully to keep your safety.

Please read all of the safety and operating instructions before operating this unit. For best results, follow all warnings placed on the unit and adhere to the operating and use instructions. These safety and operating instructions should be retained for future reference.

1. Power sources — The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

2. Power-cord protection — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Never pull or stretch the cord.

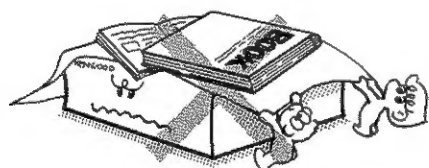


3. Grounding or polarization — The precautions should be taken so that the grounding or polarization means of this unit is not defeated.

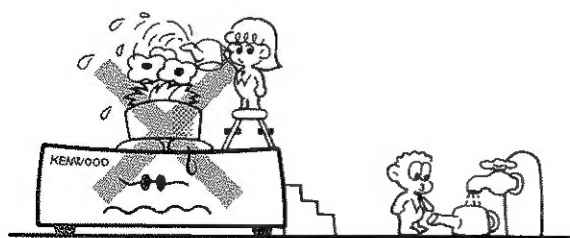
4. Ventilation — The unit should be situated so that its location or position does not interfere with its proper ventilation.

To maintain good ventilation, do not put records or a table-cloth on the unit. Place the unit at least 10 cm away from the walls.

Do not use the unit on a bed, sofa, rug or similar surface that may block the ventilation openings.

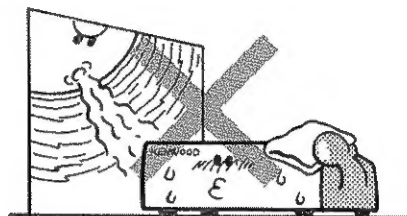


5. Water and moisture — The unit should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

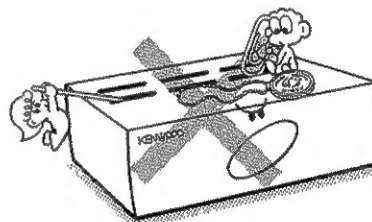


6. Temperature — The unit may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

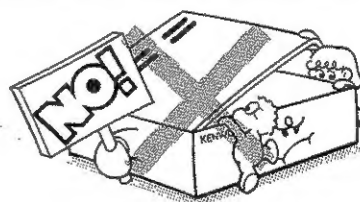
7. Heat — The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other units (including amplifiers) that produce heat.



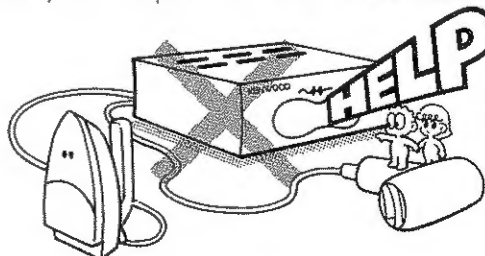
8. Electric shock — Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal object, such as a hair pin or a needle, comes into contact with the inside of this unit, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.



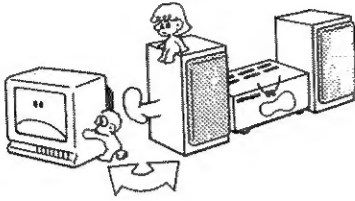
9. Enclosure removal — Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



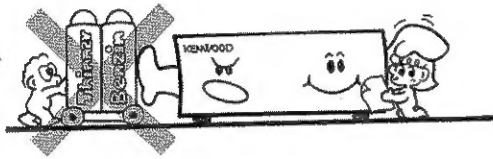
10. AC outlets — Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical units, such as an iron or toaster, to it to prevent fire or electric shock.



- 11. Magnetic fields** — Keep the unit away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.



- 12. Cleaning** — Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzene, etc. to clean the cabinet. Use a clean dry cloth.



- 13. Carts and stands** — An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



- 14. Nonuse periods** — The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.

- 15. Abnormal smell** — If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest service center.

POWER OFF!

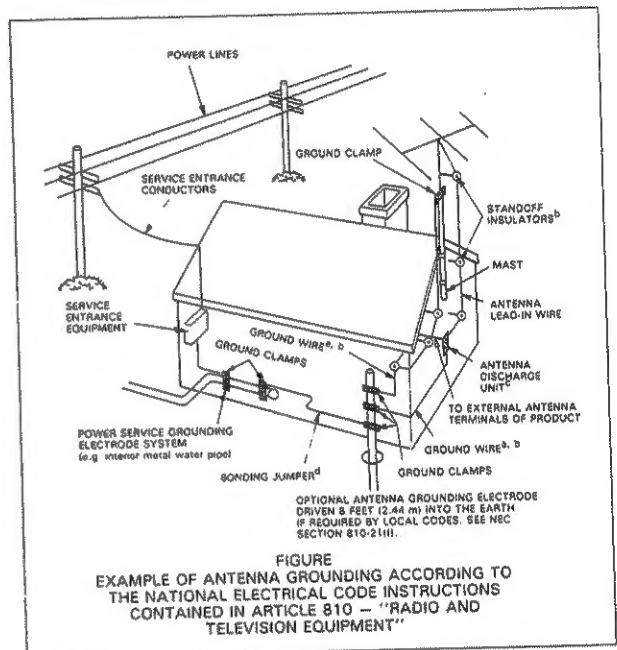


- 16. Damage requiring service** — The unit should be serviced by qualified service personnel when:

- A.** The power-supply cord or the plug has been damaged; or
- B.** Objects have fallen, or liquid has been spilled into the unit; or
- C.** The unit has been exposed to rain; or
- D.** The unit does not appear to operate normally or exhibits a marked change in performance; or
- E.** The unit has been dropped, or the enclosure damaged.

- 17. Servicing** — The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

- 18. Outdoor antenna grounding** — If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/ NFPA No. 70—1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



^a Use No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.

^b Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 — 6 feet (1.22 — 1.83 m) apart.

^c Mount antenna discharge unit as close as possible to where lead-in enters house.

^d Use jumper wire not smaller than No. 6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21(j).

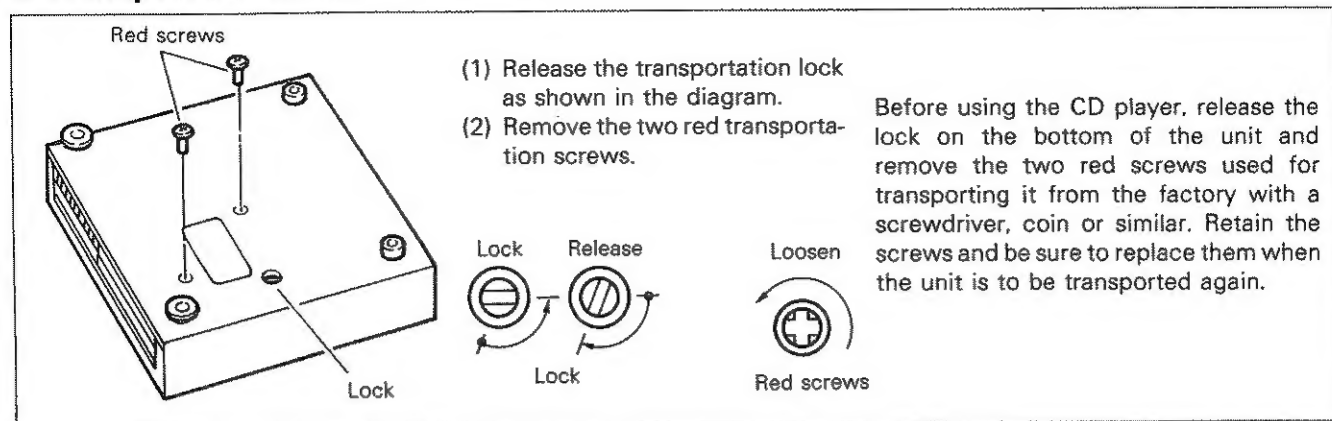
- 19. Power lines** — An outdoor antenna should be located away from power lines.

Notes:

- 1. Item 3 is not required except for grounded or polarized equipment.
- 2. Item 10 is not required except for units provided with AC outlets.
- 3. Item 18 and 19 are not required except for units provided with antenna terminals.
- 4. Item 18 complies with UL-1270 in the U.S.A.

Before operations

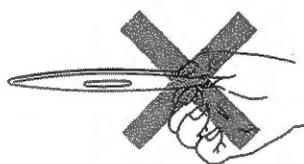
■ Transportation screws



■ Notes on handling compact discs

Handling

Compact discs are made of plastic (polycarbonate). When the recorded side of the compact disc is dirty or scratched, playback may be noisy or sound may be missed. Even when the label side is scratched, the recording may be damaged. Handle compact discs carefully. Do not stick tape, etc. to compact discs.



Sticky tape



Cleaning

When a compact disc is contaminated with fingerprints, etc., wipe with a dry cloth in a radial direction. Never use chemical solvents, such as thinner, benzene, etc. and conventional record cleaners or aerosols.



Storage

Always replace the compact disc in its case and store it. Compact discs are adversely affected by heat and moisture. Do not store compact discs in a place exposed to direct sunlight or where humidity is high.

■ Beware of condensation

Water vapor in the air may condense on cold parts, forming "dew" on its surface.

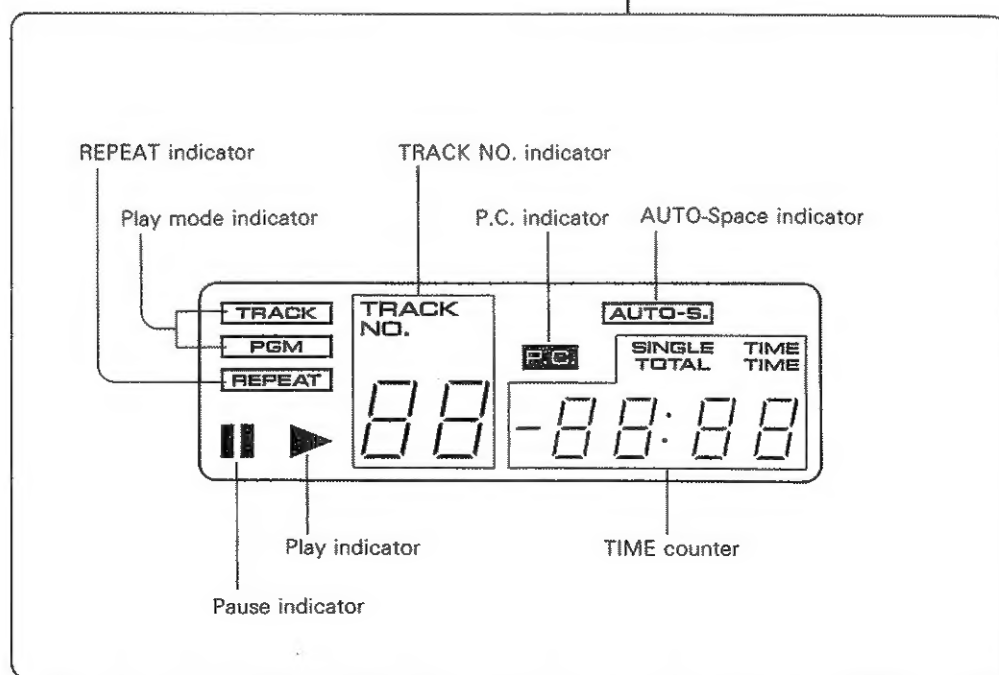
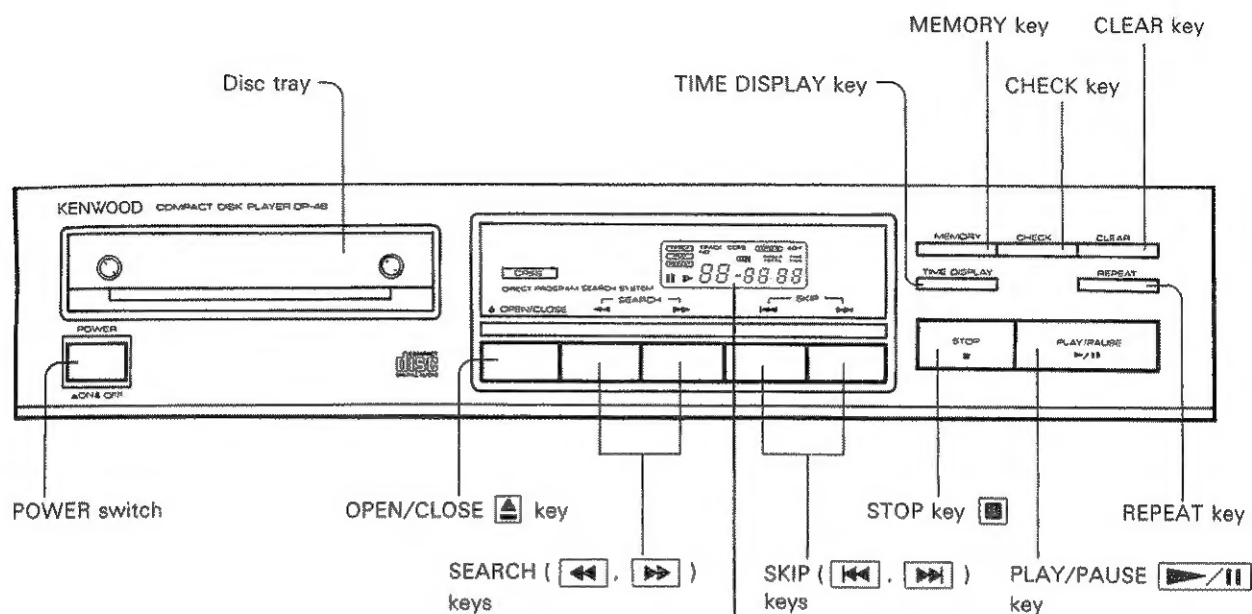
For example, when a bottle is taken out of the refrigerator and brought into a warm room, droplets of water will form on the bottle surface. This phenomenon is called "condensation". If this occurs inside the unit, the player may operate incorrectly or may not function at all.

This is not a malfunction, however, the player should be left until it is dry. (Turn the power of this unit ON and leave the player for a while. After several hours, even in the worst

case, the player will stabilize and correct playback will be possible.) Be especially careful in the following cases:

- When the unit is suddenly brought from a cold place to a warm place (causing rapid temperature change).
- When the temperature of the room is raised suddenly using a heater, etc.
- When the unit is brought from a well-cooled (airconditioned) room to a damp and hot room.
- In conditions where the temperature difference between the surroundings and this unit might cause condensation.

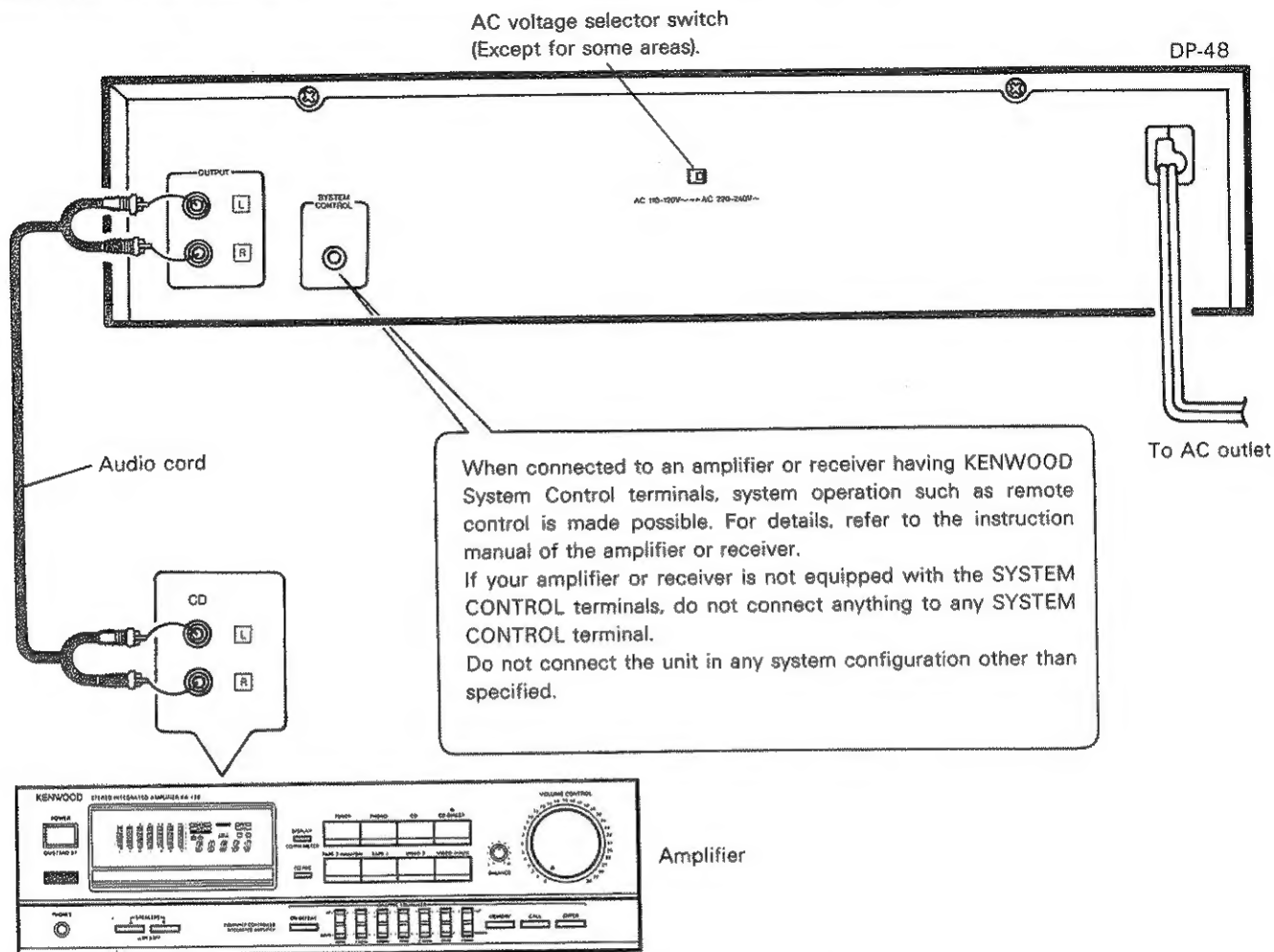
Controls and indicators



System connections

Do not insert the power plug into the socket until the connecting is completed.
Connect the output terminals of this unit to the amplifier or receiver input terminals (CD, AUX etc.) by the supplied audio cord.

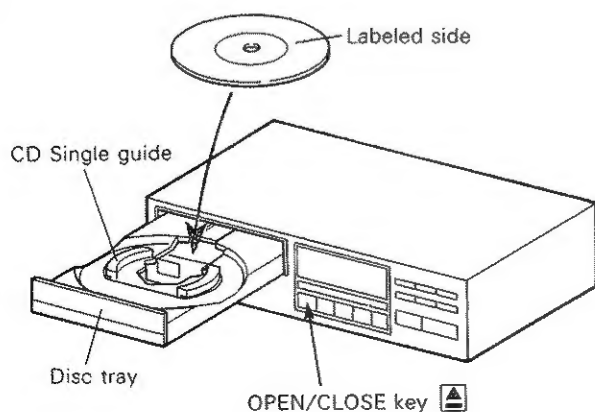
Also refer to the manual for the amplifier to which the connection is to be made.




Notes:


- Be sure that all the cords are connected properly. If they are not, the sound may not be produced or there may be noise interference.
- When taking out and putting in the connecting cords, be sure to turn the power of this unit OFF and turn the amplifier's volume to minimum. If this is not done, it can lead to errors in functioning.

How to load a compact disc



Press the OPEN/CLOSE key  to open the tray.
The disc is inserted with the labeled side up.

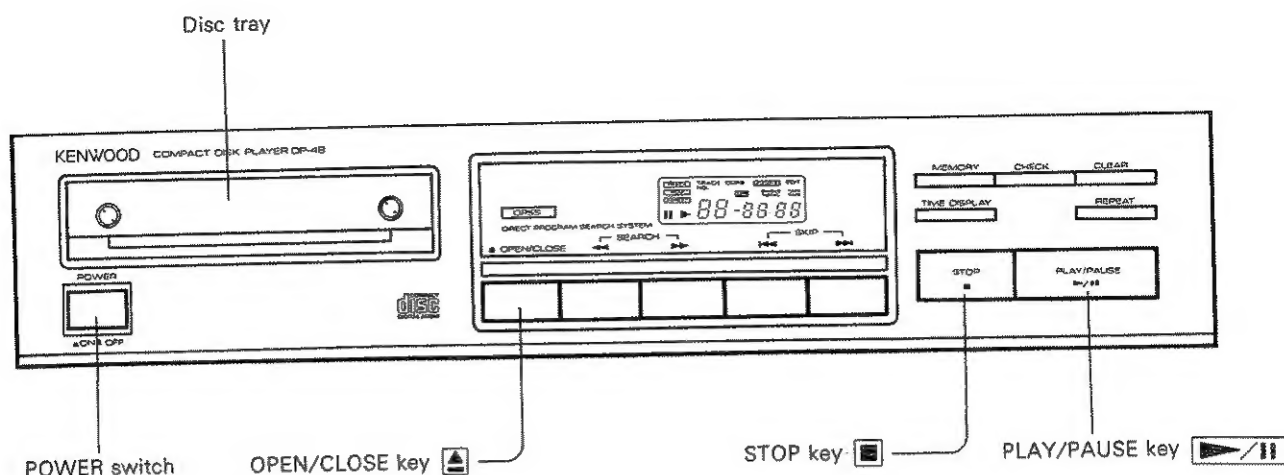
Make sure to center the CD (8 cm) correctly in the disk tray as shown in a diagramme.

Close the disc tray by pressing OPEN/CLOSE key  or pushing the front of the tray lightly.

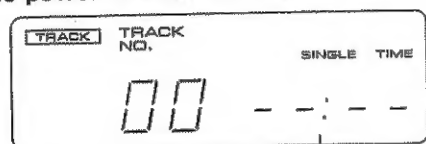
Notes:

- Make sure of the side of the disc. The disc cannot be played if it is placed upside down.
- Do not place objects other than disc on the disc tray.
- Be sure to place a disc correctly.

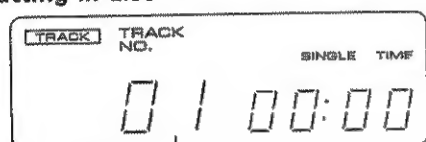
Manual play (Track mode)



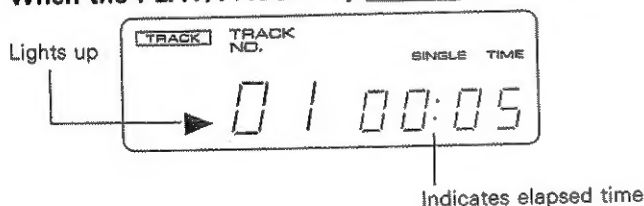
When the power has been turned on



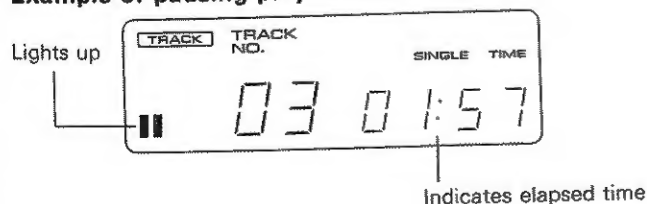
When putting in disc



When the PLAY/PAUSE key is pressed



Example of pausing play at the third track



Setting the play mode

Preparing to play

1. Press the POWER switch to turn on.
2. Press the OPEN/CLOSE key to make the tray slide out.
3. Place the disc in the tray with the labeled side up.
4. Press the OPEN/CLOSE key again to make the tray slide back in.

Play

Press the PLAY/PAUSE key.

- After a few seconds play will start from the first track.
- If a disc has already been put in, play will start automatically from the first track when the power is turned on.

Pausing play

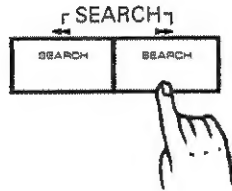
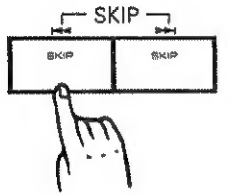
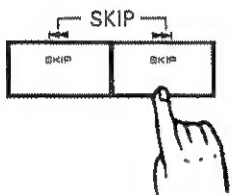
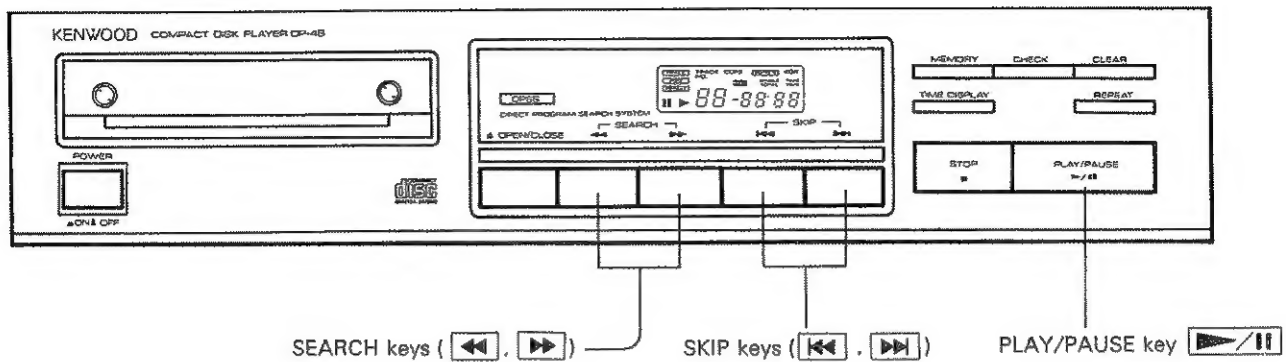
Press the PLAY/PAUSE key.

- The pause indicator (II) will light up and play will stop at that point.
- When the PLAY/PAUSE key is pressed again, play will resume from that point.

To stop play

Press the STOP key.

- The play indicator (▶) goes out and the play stops.



During the search you will hear a cueing sound. Referring to this sound, release the key when you come to the desired position and it will return to standard play.

■ To play a particular track

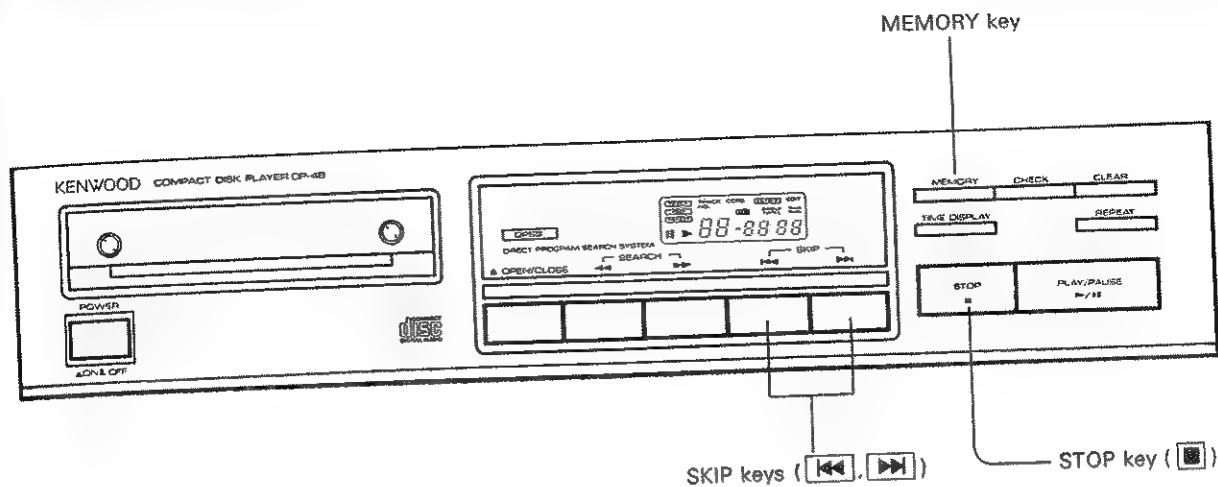
1. Select the desired TRACK No. using the SKIP (,) keys.
2. Press the PLAY/PAUSE () key within about 3 seconds after selection.
 - The TRACK No. and the play indicator () will light up.
 - The player will begin play.
 - After the final selection has been played, the player automatically enters the stop mode.
 - If the selected TRACK No. exceeds the last track on the disc, the TRACK No. is set to the last TRACK No. automatically.

■ Forward and reverse searching

During play you can search forward (or backward) at high speed by pressing the SEARCH key () (or).

- If you keep either of the keys pressed down, the search will stop when it reaches the end of the last track or the beginning of the first track. However, fast forward (or backward) search will continue if it is during repeated play.

Programmed play (Program mode)



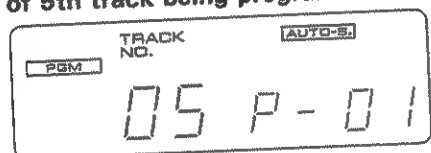
Programmed play (Program mode)

The programmed play allows you to play the desired tracks in the order you want to hear them. A maximum of 20 selections can be entered in memory.

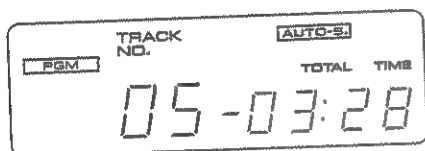
■ Programming

1. Press the STOP key (■).
2. Select the desired track numbers using the SKIP keys (◀▶).
3. Press the memory key within 3 seconds after selecting a track number.
 - The TRACK No. indicator will light, and your selected track number will be stored in memory.
 - When you press the memory key, the time display shows the total playing time of the programmed track for about 4 seconds after the programmed track number.
 - If the memory key is not pressed within 3 seconds after selecting a track number with the SKIP keys (◀▶), the selected track number is dis-counted, and the display returns to the previous status.
4. To continue to programming further selections, repeat the procedures in 2. and 3. above. You can specify up to 20 tracks. Any track you select which is in excess of 20 will be cancelled.
 - If you make a mistaken selection, press the CLEAR key once, then select the desired track by pressing the SKIP keys again.

Example of 5th track being programmed



After several seconds



■ AUTO SPACE function

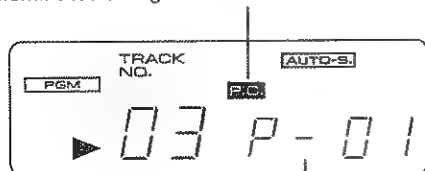
When in the program mode, [AUTO-S.] lights up and intervals with no sound are created between the programmed tracks. This function is for making use of the DPSS system on the cassette deck.

- The following kind of CD can have the track numbers separated, and even if the tracks are linked with this unit, no-sound intervals can be created.

- ① Classical and other types of music divided into movements.
- ② Live music and the like where the next tune starts before the applause dies down.

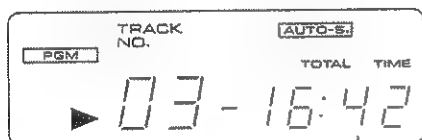
Example of when the CHECK key is pressed

[P.C.] illuminates and goes out after several minutes.



The display shows the program numbers during the check and then returns to total time after several seconds.

Example of when a program is changed.



The display shows the program numbers and then returns to total time after several seconds.

■ Checking a program

Press the CHECK key to confirm program contents.

- Each time you press the CHECK key, the display advances by one track (from the start of the program) and shows the track numbers.

■ Changing a program

- 1 Press the CHECK key to display the track number to be changed.
- 2 To change the track number currently indicated, select the desired track number by pressing the SKIP (◀◀), (▶▶) keys within 4 seconds after pressing the CHECK key.
- 3 Select a track number, and press the MEMORY key within 3 seconds.

■ Playing a program

After completing the programming, press the PLAY/PAUSE key (▶/||).

- The play indicator (▶) stops blinking and lights up continuously. Then your tracks are played as you programmed them.

■ Playing from a particular tune of a program

1. Press the SKIP key (▶▶) to advance to the next program.
2. Press the SKIP key (◀◀) to go back to the program or previous program.
 - The play starts from the beginning of the selected track.
 - If you press the (◀◀) once during play, it starts from the beginning of that track.

■ Stopping programmed play

Press the STOP key (■).

- If you then press the PLAY/PAUSE key (▶/||), the play starts once more from the beginning of the program.

■ Adding a track during programmed play

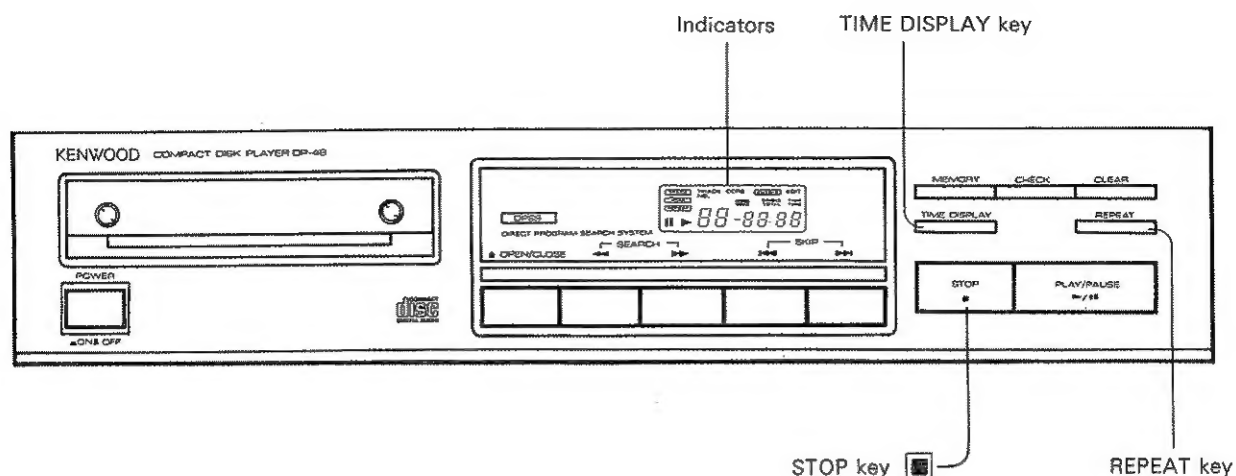
During the play you can add programs to the end by selecting the appropriate track numbers and using the numeric keys (1 - 0) and +10 key.

■ Erasing a program

Press the CLEAR key.


- To erase the program contents from the last one in order, press the CLEAR key each time.
 - All program contents will be erased if you perform any of the following operations.
- 1 Pressing the OPEN/CLOSE key (▲) when the tray is closed.
 - 2 If the player is stopped and you press the CLEAR key as many times as there are tracks on the program.
 - 3 Turning off the power.

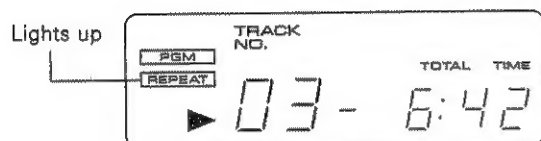
Convenient functions



■ Repeat play

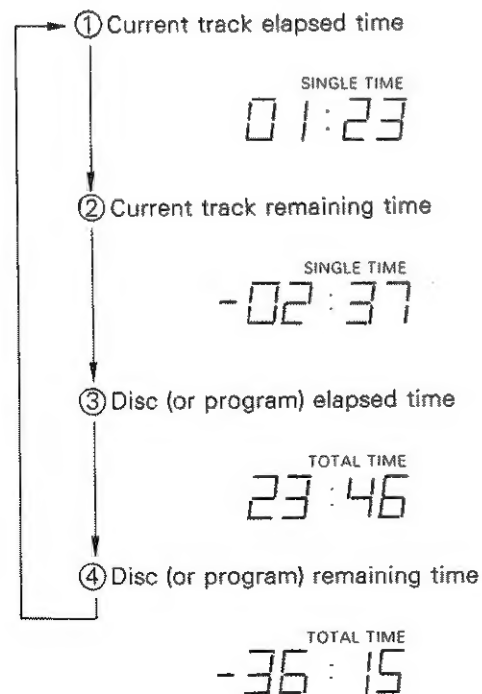
Repeat play can be activated or cancelled any time. Press the REPEAT key.



- The REPEAT indicator will light.
- During programmed play, repeat play is activated only by programmed tracks.
- During manual play, all tracks are repeated.
- To cancel repeat play, press the REPEAT key once again, press the STOP key  or open the tray.



■ Time display



You can check the elapsed time and remaining time for single tracks, the entire disc, or the current program. Press the TIME DISPLAY key to switch the time display to the mode you want. The display goes through a loop operation in the following sequence each time the key is pressed.



- The track mode indicator () on the display lights during manual play.
- The program mode indicator () on the display lights during programmed play.

In case of difficulty

What appears to be a malfunction may not always be serious. Firstly, check the following items before consulting the service personnel.

Symptom	Cause	Remedy
No power is applied with the POWER switch ON.	1. Power plug is loosely connected. 2. With the power plug connected to the switched AC outlet of an amplifier, the power of the amplifier is turned off.	1. Insert the power plug firmly to the AC outlet. 2. Turn the amplifier's power ON.
Disc is loaded, player does not play.	1. Disc is loaded upside down. 2. Disc is dirty. 3. Disc is cracked. 4. Condensation occurred on the optical lens unit.	1. Load the disc again with its label side up. 2. Wipe off the dust on the surface of the disc referring to "Cleaning of compact disc." 3. Replace the disc with a new one. 4. Leave the player for about 1 hour so that the condensation is removed.
No sound.	1. Disc is not loaded. 2. Play mode is not entered (The play/pause indicator is not lit.) 3. Disc is too dirty. 4. Disc is cracked. 5. The connection cords are inserted loosely.	1. Load a disc and press the PLAY/PAUSE key  . 2. Press the PLAY/PAUSE key  . 3. Wipe off the dust on the disc surface referring to "Cleaning of compact disc". 4. Replace the disc with a new one. 5. Connect all connection cords firmly.
Music is interrupted. (Sound is skipped.)	1. Disc is too dirty. 2. Disc is cracked. 3. Oscillation is applied to this unit.	1. Wipe off the dust on the disc surface referring to "Cleaning of compact disc". 2. Replace the disc with a new one. 3. Try selecting a place where no strong vibration occur by changing the installation place, etc.
Play starts when POWER is turned ON.	If the disc is loaded, this player will play from the beginning of the first tune when the power is turned ON.	If automatic play is not required, remove the disc from the player before turning the power OFF.

Specifications

[Format]

Type: Compact disc player
Read system: Non-contact optical pickup
Rotational speed: About 200 to 500 rpm

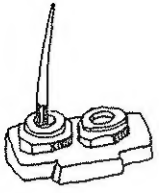
[Audio]

Frequency response: 20Hz ~ 20kHz ± 1 dB
Signal-to-noise ratio: more than 92dB
Total harmonic distortion: 0.05% at 1kHz
Wow flutter: Below measurable limit
Output level/impedance: 1.6V/3.3 k Ω

[General]

Power consumption: 10W
Dimensions: W: 440mm (17-5/16")
H: 98mm (3-7/8")
D: 261mm (10-1/4")
Weight: 3.6kg (7.9 lb)

Note:
KENWOOD follows a policy of continuous development. For this reason specifications may be changed without notice.



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